

CLASS EXERCISES

Write in slope-intercept form the equation of the line that has slope m and that passes through the given point.

1. $m = 2, (1, 6)$

2. $m = 4, (1, 5)$

3. $m = -2, (-1, 1)$

4. $m = \frac{1}{2}, (2, 2)$

5. $m = \frac{2}{3}, (3, 1)$

6. $m = -\frac{1}{2}, (-2, 3)$

Write in standard form the equation of the line that passes through the given points.

7. $(-1, -1), (2, 5)$

8. $(-3, -4), (6, 2)$

9. $(6, 13), (0, 5)$

10. $(-2, -4), (-4, -3)$

11. $(2, -2), (-4, 13)$

12. $(5, 5), (-5, 1)$

PRACTICE EXERCISES

Write in slope-intercept form the equation of the line that has slope m and that passes through the given point.

1. $m = -1, (-2, -3)$

2. $m = 1, (-2, 2)$

3. $m = 3, (2, 6)$

4. $m = -2, (2, -4)$

5. $m = -4, (1, -1)$

6. $m = -5, (-2, 8)$

7. $m = -3, (-2, -1)$

8. $m = 2, (3, 1)$

9. $m = 4, (0, 2)$

Write in standard form the equation of the line that passes through the given points.

10. $(1, -5), (2, -3)$

11. $(2, 6), (-3, 1)$

12. $(-1, 8), (1, 6)$

13. $(2, -5), (-3, 5)$

14. $(2, -1), (4, 1)$

15. $(-2, 4), (1, -5)$

16. $(1, -2), (3, 2)$

17. $(1, 6), (-2, -3)$

18. $(1, 4), (3, -8)$

19. $(-2, 3), (-4, 7)$

20. $(3, 7), (-2, -3)$

21. $(5, 4), (-5, -2)$

22. $(-5, 2), (7, 5)$

23. $(4, -5), (2, -5)$

24. $(3, 4), (3, -7)$

Write in slope-intercept form the equation of the line that has slope m and that passes through the given point.

25. $m = \frac{1}{2}, (2, 5)$

26. $m = \frac{3}{2}, (4, 3)$

27. $m = -\frac{3}{4}, (4, -6)$

28. $m = -\frac{2}{5}, (-5, 4)$

29. $m = -\frac{3}{5}, (0, 7)$

30. $m = -\frac{2}{7}, (0, 3)$

Write in standard form the equation of the line that passes through the given points.

31. $(9, 4), (0, 2)$

32. $(7, -6), (-7, 12)$

33. $(0, 5), (3, 6)$

34. $(-4, -1), (8, -4)$

35. $(2, -4), (0, 1)$

36. $(4, 4), (0, 1)$

37. $(0, -9), (9, -7)$

38. $(0, -7), (7, -4)$

39. $(13, -4), (1, 1)$

40. $(-3, 1), (3, 9)$

41. $(-3, 8), (0, 0)$

42. $(11, -5), (0, 0)$

Write in standard form the equation of the line that is parallel to the given line and passes through the given point.

43. $5y = 4x - 2, (5, -1)$

44. $2y = -3x + 4, (2, 2)$